

## VIRGINIA

### **Beach Nourishment on the Atlantic and Gulf Coasts of the U.S.—2002, 2003**

This project helps state and local governments along the Atlantic and Gulf coasts of the U.S. make informed decisions about the nourishment of beaches by consolidating the best scientific and technical information and tools for evaluating and understanding beach nourishment into one source. This resource is a user-friendly Web site that includes relevant information and tools from the fields of coastal geology, engineering, economics, law and policy, and the biological sciences.

### **Benthic Habitats of the York River, Chesapeake Bay NERR—2002, 2003**

The Center and the Chesapeake Bay National Estuarine Research Reserve (NERR) are using sediment profiling imagery, video sleds, traditional benthic sampling, and multi-beam SONAR to map turbid water habitats within the reserve. These maps will be integrated with information about key physical processes to inventory habitats and examine impacts from dredging and other anthropogenic disturbances.

### **Chesapeake Bay Land Cover and Change Data—1989**

[www.csc.noaa.gov/crs/lca/chesa.html](http://www.csc.noaa.gov/crs/lca/chesa.html)

This prototype project mapped terrestrial land cover in coastal watershed environments and identified changes in these areas that occurred between 1984 and 1988/89. The project relied on satellite multispectral imagery as the primary information source. These data were used to distinguish major land cover classes, and previous images were studied to locate areas that changed over time. For this project, the data were acquired according to the Center's Coastal Change Analysis Program (C-CAP) methods.

### **CZMA Bibliographies**

[www.csc.noaa.gov/CZIC/](http://www.csc.noaa.gov/CZIC/)

The Center's library has cataloged NOAA's Coastal Zone Information Center collection, produced by state coastal management programs under the Coastal Zone Management Act (CZMA). This collection contains documents that span a number of coastal topics and includes brochures, management plans, and legislative information. A bibliography of this information for the Chesapeake Bay area will be available beginning in 2003.

### **Protected Areas GIS (PAGIS)**

[www.csc.noaa.gov/pagis/](http://www.csc.noaa.gov/pagis/)

The PAGIS project brought compatible geographic information systems (GIS), geographic data management, and Internet capabilities to each of the nation's 25 Estuarine Research Reserves and 13 Marine Sanctuaries. Through PAGIS, the reserves and sanctuaries also developed advanced data sets, underwent extensive training, and found innovative ways to make the most effective use of their new data and technological capabilities.

### **Topographic Change Mapping—1996 to 1998**

[www.csc.noaa.gov/lidar/](http://www.csc.noaa.gov/lidar/)

High-resolution Light Detection and Ranging (LIDAR) measurements of coastal beach topography were made during 1996, 1997, and 1998. These measurements can be used for beach change studies and are available to the public.

### **Virginia Land Cover and Change Data—2000**

[www.csc.noaa.gov/crs/ccap\\_index.html](http://www.csc.noaa.gov/crs/ccap_index.html)

The Center provided technical assistance to the Virginia Institute of Marine Science, which obtained funds from other NOAA sources to update previous Coastal Change Analysis Program (C-CAP) land cover change detection data for the York River area of the Chesapeake Bay. This prototype study created a third set of land cover change and trend data for one of the four previous C-CAP Chesapeake Bay Landsat scene areas.